

(19) World Intellectual Property
Organization
International Bureau



(43) International Publication Date
23 June 2005 (23.06.2005)

PCT

(10) International Publication Number
WO 2005/056906 A1

(51) International Patent Classification⁷: D06F 39/08

(21) International Application Number:
PCT/KR2004/000816

(22) International Filing Date: 8 April 2004 (08.04.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
10-2003-0089133
9 December 2003 (09.12.2003) KR

(71) Applicant (for all designated States except US): SAM-
SUNG ELECTRONICS CO., LTD. [KR/KR]: 416,
Maetan-Dong, Yeongtong-Gu, Suwon-Si, Gyeonggi-Do
442-742 (KR).

(72) Inventor; and

(75) Inventor/Applicant (for US only): LEE, Young Su
[KR/KR]: #101-1203, Kulon APT., 890, Goocheon-Dong,
Kwonsan-Gu, Suwon-Si, Gyeonggi-Do 441-340 (KR).

(74) Agent: SEO, Bong Seok; 9th Floor, Seolim Bldg., 649-10
Yoksam-Dong, Gangnam-Gu, Seoul 135-080 (KR).

(81) Designated States (unless otherwise indicated, for every
kind of national protection available): AE, AG, AI, AM,
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,
KG, KP, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG,
MK, MN, MW, MX, MY, NA, NI, NO, NZ, OM, PG, PH,
PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN,
TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

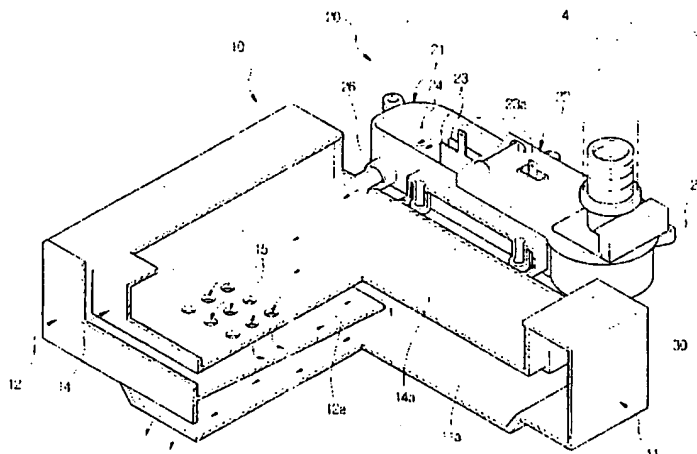
(84) Designated States (unless otherwise indicated, for every
kind of regional protection available): ARIPO (BW, GH,
GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW),
Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), Euro-
pean (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR,
GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK,
TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW,
ML, MR, NE, SN, TD, TG).

Published:

— with international search report

For two-letter codes and other abbreviations, refer to the "Guid-
ance Notes on Codes and Abbreviations" appearing at the begin-
ning of each regular issue of the PCT Gazette.

(54) Title: CLOTHES WASHING MACHINE



(57) Abstract: A washing machine includes a colloidal silver maker and a detergent feeder which are integrated with each other, thus enhancing assembly and reliability of the washing machine. The colloidal silver maker includes a silver ion casing, a lid, and a pair of silver plates. An outlet pipe and a connecting part are provided on predetermined portions of the silver ion casing. The outlet pipe is integrated with an inlet of the detergent feeder, and the connecting part integrally connects the colloidal silver maker to the detergent feeder. Thus, the colloidal silver maker is integrated with the detergent feeder while the silver ion casing of the colloidal silver maker communicating with the detergent feeder. The silver plates are placed in the silver ion casing while being supported by the lid. Further, at least one spacing projection is upwardly projected from a bottom of the silver ion casing to be provided between the silver plates.